

# CHAPTER 43



## INTERIOR COMMUNICATIONS ELECTRICIAN (IC)

NAVPERS 18068-43E

CH-64

Updated: October 2015

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NAVY ENLISTED OCCUPATIONAL STANDARDS  
FOR  
INTERIOR COMMUNICATIONS ELECTRICIAN (IC)



SCOPE OF RATING

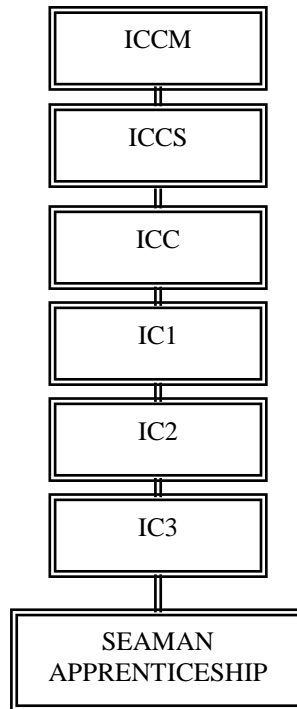
Interior Communications Electricians (IC) configure and perform organizational and intermediate maintenance on alarm, safety, and warning systems, auxiliary and support systems, data conversion and distribution systems, indicating, metering, and ordering systems, Interior Communication (IC) systems, video entertainment, video communication, and video monitoring systems, navigation systems, environmental systems, and visual landing aids; interpret and analyze ships blueprints and system interface diagrams; inspect, test, and make detailed casualty analyses; and direct maintenance and repair of electrical, electronic, fiber optic, electrohydraulic, electromechanical, and synchro/servo systems.

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These Occupational Standards are to be incorporated in Volume I, Part B, of the Manual of Navy Enlisted Manpower and Personnel Classifications and Occupational Standards (NAVPERS 18068F) as Chapter 43.

## GENERAL INFORMATION

### CAREER PATTERN



Normal path of advancement to Chief Warrant Officer and Limited Duty Officer categories can be found in OPNAVINST 1420.1.

For rating entry requirements, refer to MILPERSMAN 1306-618.

### SAFETY

**The observance of Operational Risk Management (ORM) and proper safety precautions in all areas is an integral part of each billet and the responsibility of every Sailor; therefore, it is a universal requirement for all ratings.**

**Job Title****INTERIOR COMMUNICATION OPERATOR****Job Code****003733****Job Family**

Installation, Maintenance, and Repair

**NOC**

TBD

**Short Title (30 Characters)**

INTERIOR COMMUNICATION OP

**Short Title (14 Characters)**

INT COMM OPER

**Pay Plan**

ENLISTED

**Career Field**

IC

**Other Relationships and Rules**

NECs 4740, 4741, 4746

**Job Description**

Interior Communication Operators broadcast video communications, video entertainment, and video monitoring feeds; perform internal communications with amplified voice communication systems, sound powered phones, and ships service telephones; and work under the supervision of a mentor while learning a trade or skill.

**DoD Relationship****Group Title**

Interior Communications

**DoD Code**

162300

**O\*NET Relationship****Occupation Title**

Telecommunications Equipment  
Installers and Repairers, Except  
Line Installers

**SOC Code**

49-2022.00

**Job Family**

Installation, Maintenance, and  
Repair

**Skills***Operation and Control**Operation Monitoring**Speaking**Information Ordering***Abilities***Control Precision**Selective Attention**Deductive Reasoning***TECHNICAL CORE FUNDAMENTALS****Paygrade**

E4

**Task Type**

CORE

**Task Statements**

Perform internal communications (e.g., amplified voice communications, sound powered phone, and ships service telephone)

**VIDEO ENTERTAINMENT, COMMUNICATION, AND MONITORING SYSTEMS****Paygrade**

E6

**Task Type**

NON-CORE

**Task Statements**

Broadcast video communications

E5

CORE

Broadcast video entertainment

E4

CORE

Broadcast video monitoring feeds

**Job Title****INTERIOR COMMUNICATION TECHNICIAN****Job Code****003734****Job Family**

Installation, Maintenance, and Repair

**NOC**

TBD

**Short Title (30 Characters)**

INTERIOR COMMUNICATION TEC

**Short Title (14 Characters)**

INT COMM TECH

**Pay Plan**

ENLISTED

**Career Field**

IC

**Other Relationships and Rules**

NECs 1410, 1591, 4135, 4651, 4668, 4671, 4675, 4703, 4712, 4713, 4717, 4720, 4727, 4738, 4739, 4740, 4741, 4743, 4746, 4747, 4755, 4758, 4775, 4777, 4778, 4779, 4782, 4784, 4787, 4789, 4813, 5642, 9534, 9594, 9612

**Job Description**

Interior Communication Technicians perform, coordinate, and direct the installation, configuration, maintenance, and repair of electrical, electronic, fiber optic, electrohydraulic, electromechanical, and synchro/servo systems on ships and at shore facilities including alarm, safety, and warning systems, auxiliary and support systems, data conversion and distribution systems, indicating, metering, and ordering systems, Interior Communication (IC) systems, video entertainment, video communication, and video monitoring systems, navigation systems, environmental systems, and visual landing aids; perform Interior Communications (IC) watchstanding; and work with little to no supervision while mentoring operators.

**DoD Relationship****Group Title**

Interior Communications

**DoD Code**

162300

**O\*NET Relationship****Occupation Title**Telecommunications Line  
Installers and Repairers**SOC Code**

49-9052.00

**Job Family**Installation, Maintenance, and  
Repair**Skills***Systems Analysis**Reading Comprehension**Quality Control Analysis**Operation Monitoring**Equipment Selection**Troubleshooting**Equipment Maintenance**Repairing**Operation and Control**Management of Material Resources***Abilities***Written Comprehension**Selective Attention**Inductive Reasoning**Deductive Reasoning**Information Ordering**Written Expression**Manual Dexterity**Oral Expression**Visualization**Finger Dexterity***ALARM, SAFETY, AND WARNING SYSTEMS****Paygrade****Task Type****Task Statements**

E4

CORE

Configure alarm, safety, and warning systems

E4

NON-CORE

Configure Damage Control Console (DCC) systems

E4

CORE

Perform preventive maintenance on alarm, safety, and warning systems

E4

NON-CORE

Perform preventive maintenance on Damage Control Console (DCC) systems

E4

CORE

Repair alarm, safety, and warning systems

E4

NON-CORE

Repair Damage Control Console (DCC) systems

E4

CORE

Test alarm, safety, and warning systems

E4

NON-CORE

Test Damage Control Console (DCC) systems

E4

CORE

Troubleshoot alarm, safety, and warning systems

E4

NON-CORE

Troubleshoot Damage Control Console (DCC) systems

**AUXILIARY AND SUPPORT SYSTEMS****Paygrade****Task Type****Task Statements**

E4

CORE

Configure cathodic protection systems

E4

CORE

Configure Commercial-Off-The-Shelf (COTS) and Non-Program of Record (Non-POR) systems

E4

CORE

Perform preventive maintenance on auxiliary backup power systems

E4

CORE

Perform preventive maintenance on cathodic protection systems

E4	CORE	Perform preventive maintenance on Commercial-Off-The-Shelf (COTS) and Non-Program of Record (Non-POR) systems
E4	CORE	Repair auxiliary backup power systems
E5	CORE	Repair cathodic protection systems
E4	CORE	Repair Commercial-Off-The-Shelf (COTS) and Non-Program of Record (Non-POR) systems
E4	CORE	Test auxiliary backup power systems
E4	CORE	Test cathodic protection systems
E4	CORE	Test Commercial-Off-The-Shelf (COTS) and Non-Program of Record (Non-POR) systems
E4	CORE	Troubleshoot auxiliary backup power systems
E5	CORE	Troubleshoot cathodic protection systems
E4	CORE	Troubleshoot Commercial-Off-The-Shelf (COTS) and Non-Program of Record (Non-POR) systems

#### **DATA CONVERSION AND DISTRIBUTION**

<b><u>Paygrade</u></b>	<b><u>Task Type</u></b>	<b><u>Task Statements</u></b>
E4	CORE	Configure computer and peripheral systems
E4	CORE	Configure data conversion and distribution systems
E4	CORE	Configure network systems
E5	CORE	Maintain Interior Communication (IC) system password accounts
E4	CORE	Perform preventive maintenance on computer and peripheral systems
E4	CORE	Perform preventive maintenance on data conversion and distribution systems
E4	CORE	Perform preventive maintenance on network systems
E4	CORE	Perform preventive maintenance on programmable logic controller systems
E4	CORE	Repair computer and peripheral systems
E4	CORE	Repair data conversion and distribution systems
E4	CORE	Repair network systems
E4	CORE	Repair programmable logic controller systems
E4	CORE	Test computer and peripheral systems
E4	CORE	Test data conversion and distribution systems
E4	CORE	Test network systems
E4	CORE	Test programmable logic controller systems
E4	CORE	Troubleshoot computer and peripheral systems
E4	CORE	Troubleshoot data conversion and distribution systems
E4	CORE	Troubleshoot network systems
E4	CORE	Troubleshoot programmable logic controller systems
E5	CORE	Update network software and firmware

#### **EQUIPMENT ADMINISTRATION**

<b><u>Paygrade</u></b>	<b><u>Task Type</u></b>	<b><u>Task Statements</u></b>
E4	CORE	Document equipment status
E4	CORE	Inspect work areas, tools, and equipment
E4	CORE	Install Interior Communication (IC) equipment
E4	CORE	Inventory controlled equipment

E4	CORE	Maintain Interior Communication (IC) equipment calibration records
E6	CORE	Manage equipment certifications and recertifications
E5	CORE	Review technical briefs, notices, and bulletins
E5	CORE	Supervise work center Interior Communication (IC) equipment and system maintenance operations
E6	CORE	Verify equipment installations, testing, and alterations

#### **INDICATING, METERING, AND ORDERING**

<b><u>Paygrade</u></b>	<b><u>Task Type</u></b>	<b><u>Task Statements</u></b>
E4	NON-CORE	Configure Ballast Control Console (BCC) systems
E4	CORE	Configure wind speed and direction systems
E4	NON-CORE	Perform preventive maintenance on Ballast Control Console (BCC) systems
E4	CORE	Perform preventive maintenance on wind speed and direction systems
E4	NON-CORE	Repair Ballast Control Console (BCC) systems
E4	CORE	Repair wind speed and direction systems
E4	NON-CORE	Test Ballast Control Console (BCC) systems
E4	CORE	Test wind speed and direction systems
E4	NON-CORE	Troubleshoot Ballast Control Console (BCC) systems
E4	CORE	Troubleshoot wind speed and direction systems

#### **INTERIOR COMMUNICATIONS**

<b><u>Paygrade</u></b>	<b><u>Task Type</u></b>	<b><u>Task Statements</u></b>
E4	CORE	Configure Interior Communication (IC) switchboards
E4	CORE	Configure ships service telephone systems
E4	CORE	Configure sound powered phone systems
E4	CORE	Perform preventive maintenance on Interior Communication (IC) switchboards
E4	CORE	Perform preventive maintenance on ships service telephone systems
E4	CORE	Perform preventive maintenance on sound powered phone systems
E5	CORE	Repair Interior Communication (IC) switchboards
E4	CORE	Repair ships service telephone systems
E4	CORE	Repair sound powered phone systems
E4	CORE	Test Interior Communication (IC) switchboards
E4	CORE	Test ships service telephone systems
E4	CORE	Test sound powered phone systems
E5	CORE	Troubleshoot Interior Communication (IC) switchboards
E4	CORE	Troubleshoot ships service telephone systems
E4	CORE	Troubleshoot sound powered phone systems

#### **NAVIGATION SYSTEMS**

<b><u>Paygrade</u></b>	<b><u>Task Type</u></b>	<b><u>Task Statements</u></b>
E4	CORE	Configure indicating, ordering, and metering systems
E4	CORE	Configure navigation systems
E4	CORE	Configure ships control console systems
E4	CORE	Configure steering control systems
E4	CORE	Perform preventive maintenance on indicating, ordering, and metering systems
E4	CORE	Perform preventive maintenance on navigation systems



E4	CORE	Perform preventive maintenance on ships control console systems
E4	CORE	Perform preventive maintenance on ships speed systems
E4	CORE	Perform preventive maintenance on steering control systems
E4	CORE	Repair indicating, ordering, and metering systems
E4	CORE	Repair navigation systems
E5	CORE	Repair ships control console systems
E4	CORE	Repair ships speed systems
E5	CORE	Repair steering control systems
E6	NON-CORE	Supervise steering control systems corrective maintenance
E4	CORE	Test indicating, ordering, and metering systems
E4	CORE	Test navigation systems
E5	CORE	Test ships control console systems
E4	CORE	Test ships speed systems
E5	CORE	Test steering control systems
E4	CORE	Troubleshoot indicating, ordering, and metering systems
E4	CORE	Troubleshoot navigation systems
E4	CORE	Troubleshoot ships control console systems
E4	CORE	Troubleshoot ships speed systems
E4	CORE	Troubleshoot steering control systems

#### **TECHNICAL CORE FUNDAMENTALS**

<b><u>Paygrade</u></b>	<b><u>Task Type</u></b>	<b><u>Task Statements</u></b>
E4	CORE	Analyze blueprints and ships drawings
E4	CORE	Analyze electrical and electronic schematics
E4	CORE	Analyze mechanical drawings
E4	CORE	Analyze piping and valve drawings
E4	CORE	Analyze technical manuals
E4	CORE	Configure Alternating Current (AC) circuits
E4	CORE	Configure combat systems equipment
E5	CORE	Control Electromagnetic Interference (EMI) and Radio Frequency Interference (RFI) effects on electronic systems
E4	CORE	Perform basic soldering on electrical equipment
E4	CORE	Perform Combat Systems Operational Sequencing System (CSOSS) procedures (e.g., casualty responses/operations, normal operations, initialize/de-energize equipment, etc.)
E4	CORE	Perform corrosion prevention and control procedures on Interior Communication (IC) equipment and systems
E4	CORE	Perform internal communications (e.g., amplified voice communications, sound powered phone, and ships service telephone)
E4	CORE	Perform preventive maintenance on Alternating Current (AC) circuits
E4	CORE	Perform preventive maintenance on Alternating Current and Direct Current (AC/DC) motors
E4	CORE	Perform preventive maintenance on electromechanical (synchro/servo) systems
E5	CORE	Perform preventive maintenance on fiber optic cables and connectors
E4	CORE	Perform preventive maintenance on interconnecting cables and connectors

E4	CORE	Perform preventive maintenance on power supplies
E4	CORE	Perform preventive maintenance on valves
E4	CORE	Repair Alternating Current (AC) circuits
E4	CORE	Repair digital circuits
E4	CORE	Repair Direct Current (DC) circuits
E4	CORE	Repair electromechanical (synchro/servo) systems
E4	CORE	Repair fiber optic cables and connectors
E4	CORE	Repair interconnecting cables and connectors
E4	CORE	Repair power supplies
E4	CORE	Repair Radio Frequency (RF) circuits
E4	CORE	Repair valves
E4	CORE	Test Alternating Current (AC) circuits
E5	CORE	Test Alternating Current and Direct Current (AC/DC) motors
E4	CORE	Test digital circuits
E4	CORE	Test Direct Current (DC) circuits
E4	CORE	Test electromechanical (synchro/servo) systems
E4	CORE	Test fiber optic cables and connectors
E4	CORE	Test interconnecting cables and connectors
E4	CORE	Test power supplies
E4	CORE	Test Radio Frequency (RF) circuits
E4	CORE	Test valves
E5	CORE	Train technicians in casualty control procedures
E4	CORE	Troubleshoot Alternating Current (AC) circuits
E5	CORE	Troubleshoot Alternating Current and Direct Current (AC/DC) motors
E4	CORE	Troubleshoot digital circuits
E4	CORE	Troubleshoot Direct Current (DC) circuits
E4	CORE	Troubleshoot electromechanical (synchro/servo) systems
E4	CORE	Troubleshoot fiber optic cables and connectors
E4	CORE	Troubleshoot interconnecting cables and connectors
E4	CORE	Troubleshoot power supplies
E4	CORE	Troubleshoot Radio Frequency (RF) circuits
E4	CORE	Troubleshoot valves

#### **VIDEO ENTERTAINMENT, COMMUNICATION, AND MONITORING SYSTEMS**

<b><u>Paygrade</u></b>	<b><u>Task Type</u></b>	<b><u>Task Statements</u></b>
E4	CORE	Configure amplified voice communication systems
E4	CORE	Configure public address systems
E5	NON-CORE	Configure video communication systems
E4	CORE	Configure video entertainment systems
E4	CORE	Configure video monitoring systems
E4	CORE	Perform preventive maintenance on amplified voice communication systems
E4	NON-CORE	Perform preventive maintenance on video communication systems
E4	CORE	Perform preventive maintenance on video entertainment systems

E4	CORE	Perform preventive maintenance on video monitoring systems
E4	CORE	Produce multimedia content
E4	CORE	Repair amplified voice communication systems
E6	NON-CORE	Repair video communication systems
E5	CORE	Repair video entertainment systems
E4	CORE	Repair video monitoring systems
E4	CORE	Test amplified voice communication systems
E6	NON-CORE	Test video communication systems
E4	CORE	Test video entertainment systems
E4	CORE	Test video monitoring systems
E4	CORE	Troubleshoot amplified voice communication systems
E6	NON-CORE	Troubleshoot video communication systems
E4	CORE	Troubleshoot video entertainment systems
E4	CORE	Troubleshoot video monitoring systems

#### **VISUAL LANDING AIDS**

<b><u>Paygrade</u></b>	<b><u>Task Type</u></b>	<b><u>Task Statements</u></b>
E4	CORE	Configure visual landing aid systems
E4	CORE	Perform preventive maintenance on visual landing aid systems
E4	CORE	Repair visual landing aid systems
E5	NON-CORE	Supervise visual landing aid systems maintenance
E4	CORE	Test visual landing aid systems
E4	CORE	Troubleshoot visual landing aid systems

**Job Title****INTERIOR COMMUNICATION ADMINISTRATOR****Job Code****003735****Job Family**

Installation, Maintenance, and Repair

**NOC**

TBD

**Short Title (30 Characters)**

INTERIOR COMMUNICATION ADMIN

**Short Title (14 Characters)**

INT COMM ADMIN

**Pay Plan**

ENLISTED

**Career Field**

IC

**Other Relationships and Rules**

NECs 1410, 1591, 3251, 4206, 4651, 4675, 4717, 4720, 4727, 4738, 4739, 4740, 4741, 4743, 4746, 4747, 4758, 4778, 4779, 4782, 4789, 4813, 5642, 9594, 9612

**Job Description**

Interior Communication Administrators manage large projects and provide mentorship to develop junior personnel; prepare progress reports and maintenance schedules for Interior Communication (IC) systems for and during overhaul periods; plan, staff, direct, and control multiple projects; mentor technicians and operators; and work with no supervision.

**DoD Relationship****Group Title**

Interior Communications

**DoD Code**

162300

**O\*NET Relationship****Occupation Title**First-Line Supervisors of  
Mechanics Installers, and Repairers**SOC Code**

49-1011.00

**Job Family**Installation, Maintenance, and  
Repair**Skills***Systems Analysis**Quality Control Analysis**Reading Comprehension**Management of Material Resources**Monitoring**Writing**Management of Personnel Resources**Equipment Maintenance**Equipment Selection**Learning Strategies***Abilities***Inductive Reasoning**Information Ordering**Written Comprehension**Written Expression**Oral Expression**Deductive Reasoning**Problem Sensitivity***AUXILIARY AND SUPPORT SYSTEMS****Paygrade**

E5

**Task Type**

CORE

**Task Statements**

Verify auxiliary backup power system configurations

E6

CORE

Verify cathodic protection system configurations

**DATA CONVERSION AND DISTRIBUTION****Paygrade**

E5

**Task Type**

CORE

**Task Statements**

Inventory network software and firmware

E5

CORE

Maintain Interior Communication (IC) system password accounts

E6

CORE

Manage Interior Communication (IC) system password accounts

E7

CORE

Manage network software and firmware

E5

CORE

Update network software and firmware

E5

CORE

Verify data conversion and distribution system configurations

**EQUIPMENT ADMINISTRATION****Paygrade**

E7

**Task Type**

CORE

**Task Statements**

Approve equipment installations, testing, and alterations

E4

CORE

Collect equipment and system status data

E7

CORE

Coordinate equipment certifications and recertifications

E4

CORE

Document equipment status

E4

NON-CORE

Inventory Maintenance Assistance Modules (MAM)

E4

CORE

Maintain Interior Communication (IC) equipment calibration records

E5

CORE

Maintain preventive maintenance documents

E6	CORE	Manage combat systems equipment configurations
E7	CORE	Manage divisional Interior Communication (IC) equipment and system maintenance operations
E6	CORE	Manage equipment certifications and recertifications
E7	CORE	Manage safety programs and instructions on Interior Communication (IC) equipment (e.g., aloft, electrical equipment, etc.)
E5	CORE	Review technical briefs, notices, and bulletins
E6	CORE	Supervise divisional Interior Communication (IC) equipment and system maintenance operations
E5	CORE	Supervise equipment installations, testing, and alterations
E5	CORE	Supervise Maintenance Assistance Modules (MAM) usage
E5	CORE	Supervise work center Interior Communication (IC) equipment and system maintenance operations
E6	CORE	Verify equipment installations, testing, and alterations
E7	CORE	Verify Interior Communication (IC) equipment Standard Operating Procedures (SOP)

#### **INDICATING, METERING, AND ORDERING**

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E6	NON-CORE	Supervise wind speed and direction systems maintenance

#### **INTERIOR COMMUNICATIONS**

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E6	CORE	Verify Interior Communication (IC) switchboard configurations
E6	CORE	Verify ships service telephone system configurations

#### **NAVIGATION SYSTEMS**

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E6	NON-CORE	Supervise navigation systems maintenance
E5	CORE	Verify navigation system configurations
E6	CORE	Verify ships speed system configurations
E7	CORE	Verify steering control systems operation

#### **TECHNICAL CORE FUNDAMENTALS**

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E6	CORE	Draft Casualty Reports (CASREP)
E7	CORE	Manage equipment Casualty Reporting (CASREP) process
E6	NON-CORE	Manage Interior Communication (IC) watchstander qualification process
E4	CORE	Perform internal communications (e.g., amplified voice communications, sound powered phone, and ships service telephone)
E5	NON-CORE	Supervise fiber optic cable and connector repairs
E5	CORE	Train technicians in casualty control procedures
E5	CORE	Update Combat Systems Operational Sequencing System (CSOSS)

#### **VIDEO ENTERTAINMENT, COMMUNICATION, AND MONITORING SYSTEMS**

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E6	CORE	Manage Defense Media Activity (DMA) assets
E7	NON-CORE	Supervise video communication broadcasts
E7	CORE	Supervise video entertainment broadcasts

## VISUAL LANDING AIDS

<u>Paygrade</u>	<u>Task Type</u>	<u>Task Statements</u>
E6	CORE	Verify visual landing aid system configurations